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DIGITAL.DWPI,TDBD,EPAB,JPAB,USPT.	686130
DIGITALS.DWPI,TDBD,EPAB,JPAB,USPT.	204
ASSISTANT.DWPI,TDBD,EPAB,JPAB,USPT.	21223
ASSISTANTS.DWPI,TDBD,EPAB,JPAB,USPT.	8344
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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,JPAB,EPAB,DWPI,TDBD	battery voltage same reference voltage same compar\$3	875	<u>L1</u>
USPT,JPAB,EPAB,DWPI,TDBD	power near3 manag\$5 and l1	11	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	12 and personal digital assistant	1	<u>L3</u>

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L2: Entry 10 of 11

File: DWPI

Dec 1, 1999

DERWENT-ACC-NO: 1999-135124

DERWENT-WEEK: 200111

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TITLE: Power management method for personal digital assistant (PDA)

INVENTOR: NA, S; NAH, S W

PATENT-ASSIGNEE: SAMSUNG ELECTRONICS CO LTD (SMSU)

PRIORITY-DATA: 1997KR-0042735 (August 29, 1997)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 233133 B1	December 1, 1999	N/A	000	H04B001/40
GB 2328766 A	March 3, 1999	N/A	013	G06F001/28
JP 11085331 A	March 30, 1999	N/A	004	G06F001/28
CN 1210292 A	March 10, 1999	N/A	000	G06F001/32
GB 2328766 B	October 13, 1999	N/A	000	G06F001/28
KR 99019356 A	March 15, 1999	N/A	000	H04B001/40

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR 233133B1	August 29, 1997	1997KR-0042735	N/A
GB 2328766A	July 3, 1998	1998GB-0014328	N/A
JP 11085331A	May 14, 1998	1998JP-0132413	N/A
CN 1210292A	May 21, 1998	1998CN-0108322	N/A
GB 2328766B	July 3, 1998	1998GB-0014328	N/A
KR 99019356A	August 29, 1997	1997KR-0042735	N/A

INT-CL (IPC): G06F 1/26; G06F 1/28; G06F 1/32; G06F 15/02; H04B 1/38; H04B 1/40; H04B 7/26

ABSTRACTED-PUB-NO: GB 2328766A

## BASIC-ABSTRACT:

NOVELTY - The PDA is connectable to a portable radio telephone. Upon switch-on of the radio telephone, the PDA's battery voltage is detected. The battery voltage is compared with a reference voltage that is slightly higher than an inoperable voltage of the PDA. A low voltage alarm message is generated through display or speaker if the battery voltage is lower than

the reference voltage. If the battery voltage is higher than the reference voltage, the PDA supplies power to the external communication device. If the PDA battery voltage is lower than the inoperable voltage, it is placed into sleep mode.

USE - Power management of PDA, in conjunction with a radio telephone.

ADVANTAGE - Prevents overloading of PDA by setting to sleep mode if battery voltage is too low.

ABSTRACTED-PUB-NO: GB 2328766B  
EQUIVALENT-ABSTRACTS:

NOVELTY - The PDA is connectable to a portable radio telephone. Upon switch-on of the radio telephone, the PDA's battery voltage is detected. The battery voltage is compared with a reference voltage that is slightly higher than an inoperable voltage of the PDA. A low voltage alarm message is generated through display or speaker if the battery voltage is lower than the reference voltage. If the battery voltage is higher than the reference voltage, the PDA supplies power to the external communication device. If the PDA battery voltage is lower than the inoperable voltage, it is placed into sleep mode.

USE - Power management of PDA, in conjunction with a radio telephone.

ADVANTAGE - Prevents overloading of PDA by setting to sleep mode if battery voltage is too low.

CHOSEN-DRAWING: Dwg.2/2

DERWENT-CLASS: T01 W01 X16  
EPI-CODES: T01-L01; T01-M06A1; W01-C01D; X16-H;

**WEST**

Generate Collection

L2: Entry 4 of 11

File: USPT

Apr 23, 1996

DOCUMENT-IDENTIFIER: US 5510690 A

TITLE: Battery pack, battery discrimination control apparatus and method therefor

DEPR:

FIG. 8 is the detailed circuit diagram of the power supply controller 30 shown in FIG. 7. A power supply control microcomputer 60 is a one-chip microcomputer comprising a power supply control CPU (PS-CPU) 61, an internal ROM 64, an internal RAM 65, a parallel I/O 67, an I/O driver 68, an A/D converter 78, and a serial I/O 78. The PS-CPU 61 always monitors and controls the power supply regardless of the ON/OFF operation of the power switch. The PS-CPU 61 performs centralized management of the system power supply, such as control of a power supply circuit 63 for generating and outputting various operating voltages for operating the system, ON/OFF control of the power supply upon operation of the power switch 13, discrimination of a mounted battery pack, and charge/discharge control according to charge/discharge control parameters of the battery pack in accordance with a power supply program stored in the internal ROM 64.

CLPV:

first comparing means for comparing a battery voltage of said second type of battery with a first reference voltage value and outputting a signal for operating said first interrupting circuit when the battery voltage is higher than the first reference voltage value in a charge mode; and

CLPV:

second comparing means for comparing the battery voltage of said second type of battery with a second reference voltage value and outputting a signal for operating said second interrupting circuit when the battery voltage is lower than the second reference voltage value in a discharge mode.

CLPV:

first comparing means for comparing a battery voltage of said second type of battery with a first reference voltage value and outputting a signal for operating said first interrupting circuit when the battery voltage is higher than the first reference voltage value in a charge mode; and

CLPV:

second comparing means for comparing the battery voltage of said second type of battery with a second reference voltage

value and outputting a signal for operating said second interrupting circuit when the battery voltage is lower than the second reference voltage value in a discharge mode.

CLPV:

first comparing means for comparing a battery voltage of said second type of battery with a first reference voltage value and outputting a signal for operating said first interrupting circuit when the battery voltage is higher than the first reference voltage value in a charge mode; and

CLPV:

second comparing means for comparing the battery voltage of said second type of battery with a second reference voltage value and outputting a signal for operating said second interrupting circuit when the battery voltage is lower than the second reference voltage value in a discharge mode.

CLPV:

first comparing means for comparing a battery voltage of said second type of battery with a first reference voltage value and outputting a signal for operating said first interrupting circuit when the battery voltage is higher than the first reference voltage value in a charge mode; and

CLPV:

second comparing means for comparing the battery voltage of said second type of battery with a second reference voltage value and outputting a signal for operating said second interrupting circuit when the battery voltage is lower than the second reference voltage value in a discharge mode.

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 11 of 11 returned.**

- ☐
1. Document ID: US 5021679 A Relevance Rank: 81

L2: Entry 9 of 11 File: USPT Jun 4, 1991  
US-PAT-NO: 5021679  
DOCUMENT-IDENTIFIER: US 5021679 A

TITLE: Power supply and oscillator for a computer system  
providing automatic selection of supply voltage and frequency

DATE-ISSUED: June 4, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fairbanks; John P.	Sunnyvale	CA	N/A	N/A
Yuan; Andy C.	Saratoga	CA	N/A	N/A

US-CL-CURRENT: 307/66; 323/222, 323/272, 323/318, 323/350,  
323/351, 713/321

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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- ☐
2. Document ID: US 5307003 A Relevance Rank: 80

L2: Entry 6 of 11 File: USPT Apr 26, 1994  
US-PAT-NO: 5307003  
DOCUMENT-IDENTIFIER: US 5307003 A

TITLE: Varying the supply voltage in response to the current  
supplied to a computer system

DATE-ISSUED: April 26, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fairbanks; John P.	Sunnyvale	CA	N/A	N/A
Yuan; Andy C.	Saratoga	CA	N/A	N/A

US-CL-CURRENT: 323/222; 323/284

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5153535 A      Relevance Rank: 80

L2: Entry 8 of 11      File: USPT      Oct 6, 1992

US-PAT-NO: 5153535

DOCUMENT-IDENTIFIER: US 5153535 A

TITLE: Power supply and oscillator for a computer system  
providing automatic selection of supply voltage and frequency

DATE-ISSUED: October 6, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fairbanks; John P.	Sunnyvale	CA	N/A	N/A
Yuan; Andy C.	Saratoga	CA	N/A	N/A

US-CL-CURRENT: 331/143; 331/DIG.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 5568370 A      Relevance Rank: 72

L2: Entry 3 of 11      File: USPT      Oct 22, 1996

US-PAT-NO: 5568370

DOCUMENT-IDENTIFIER: US 5568370 A

TITLE: Tactical power adapter

DATE-ISSUED: October 22, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goldstein; Leonard	Clifton	VA	N/A	N/A
Baz; Mohammad	Fairfax Station	VA	N/A	N/A

US-CL-CURRENT: 363/34; 307/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5510690 A      Relevance Rank: 70

L2: Entry 4 of 11

File: USPT

Apr 23, 1996

US-PAT-NO: 5510690

DOCUMENT-IDENTIFIER: US 5510690 A

TITLE: Battery pack, battery discrimination control apparatus  
and method therefor

DATE-ISSUED: April 23, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Yoichiro	Tokyo	N/A	N/A	JPX
Tsuji; Hiroyuki	Tokyo	N/A	N/A	JPX

US-CL-CURRENT: 320/106; 320/125, 320/134, 320/150

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5982643 A Relevance Rank: 69

L2: Entry 1 of 11

File: USPT

Nov 9, 1999

US-PAT-NO: 5982643

DOCUMENT-IDENTIFIER: US 5982643 A

TITLE: Power converter with selectively variable output and  
controller and display system therefor

DATE-ISSUED: November 9, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Philipot; Thomas H.	Jackson	MI	N/A	N/A

US-CL-CURRENT: 363/25; 320/149, 323/351, 323/909, 363/98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5686808 A Relevance Rank: 68

L2: Entry 2 of 11

File: USPT

Nov 11, 1997



US-PAT-NO: 5686808

DOCUMENT-IDENTIFIER: US 5686808 A

TITLE: Universal battery charger and method

DATE-ISSUED: November 11, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lutz; Frank T.	Cardiff	CA	92007	N/A

US-CL-CURRENT: 320/110; 320/106, 320/151, 320/161

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: KR 233133 B1, GB 2328766 A, JP 11085331 A, CN 1210292 A, GB 2328766 B, KR 99019356 A    Relevance Rank: 68

L2: Entry 10 of 11

File: DWPI

Dec 1, 1999

DERWENT-ACC-NO: 1999-135124

DERWENT-WEEK: 200111

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TITLE: Power management method for personal digital assistant (PDA)

INVENTOR: NA, S; NAH, S W

PRIORITY-DATA: 1997KR-0042735 (August 29, 1997)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 233133 B1	December 1, 1999	N/A	000	H04B001/40
GB 2328766 A	March 3, 1999	N/A	013	G06F001/28
JP 11085331 A	March 30, 1999	N/A	004	G06F001/28
CN 1210292 A	March 10, 1999	N/A	000	G06F001/32
GB 2328766 B	October 13, 1999	N/A	000	G06F001/28
KR 99019356 A	March 15, 1999	N/A	000	H04B001/40

INT-CL (IPC): G06F 1/26; G06F 1/28; G06F 1/32; G06F 15/02; H04B 1/38; H04B 1/40; H04B 7/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 9. Document ID: JP 10164769 A Relevance Rank: 68

L2: Entry 11 of 11

File: DWPI

Jun 19, 1998

DERWENT-ACC-NO: 1998-405727

DERWENT-WEEK: 199835

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TITLE: Battery charger for e.g. ion battery - has PWM controller that manages pulse power supply based on difference between output of pulse power supply and first reference voltage and between voltage near electrode of battery and second reference voltage

PRIORITY-DATA: 1996JP-0330411 (November 26, 1996)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10164769 A	June 19, 1998	N/A	005	H02J007/10

INT-CL (IPC): H02J 7/10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 10. Document ID: US 5218190 A Relevance Rank: 68

L2: Entry 7 of 11

File: USPT

Jun 8, 1993

US-PAT-NO: 5218190

DOCUMENT-IDENTIFIER: US 5218190 A

TITLE: Means and method for non-contact bar code label verification

DATE-ISSUED: June 8, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Hardesty; John	Ervine	CA	N/A		N/A
Barkan; Edward	South Setauket	NY	N/A		N/A
Barkan; Christina S.	South Setauket	NY	N/A		N/A
Fletcher; Dean	Mission Viejo	CA	N/A		N/A
Almeida; Timothy	Santa Ana	CA	N/A		N/A

US-CL-CURRENT: 235/462.01; 235/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5504315 A      Relevance Rank: 68

L2: Entry 5 of 11

File: USPT

Apr 2, 1996

US-PAT-NO: 5504315

DOCUMENT-IDENTIFIER: US 5504315 A

TITLE: Means and method for non-contact bar code label verification

DATE-ISSUED: April 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Hardesty; John	Ervine	CA	N/A		N/A
Barkan; Edward	South Setauket	NY	N/A		N/A
Barkan; Christina S.	South Setauket	NY	N/A		N/A
Fletcher; Dean	Mission Viejo	CA	N/A		N/A
Almeida; Timothy	Santa Ana	CA	N/A		N/A

US-CL-CURRENT: 235/454; 235/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. Desc	Image
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Term	Documents
POWER.DWPI,TDBD,EPAB,JPAB,USPT.	2112696
POWERS.DWPI,TDBD,EPAB,JPAB,USPT.	58216
MANAG\$5	0
MANAG.DWPI,TDBD,EPAB,JPAB,USPT.	416
MANAGA.DWPI,TDBD,EPAB,JPAB,USPT.	2
MANAGABLE.DWPI,TDBD,EPAB,JPAB,USPT.	151
MANAGABLY.DWPI,TDBD,EPAB,JPAB,USPT.	3
MANAGADZE.DWPI,TDBD,EPAB,JPAB,USPT.	42
MANAGAER.DWPI,TDBD,EPAB,JPAB,USPT.	3
MANAGAING.DWPI,TDBD,EPAB,JPAB,USPT.	3
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